# Opportunities for Cerulean Warbler Conservation During the Breeding Season

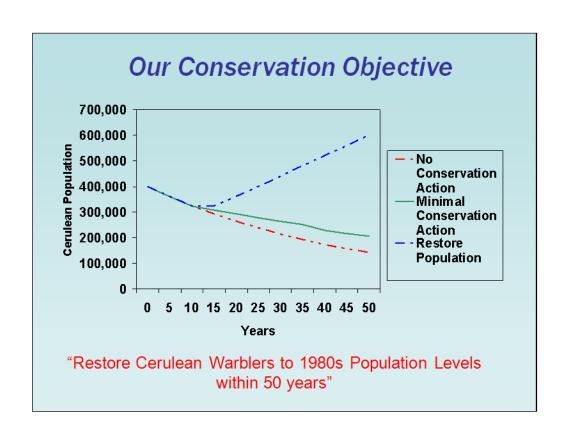


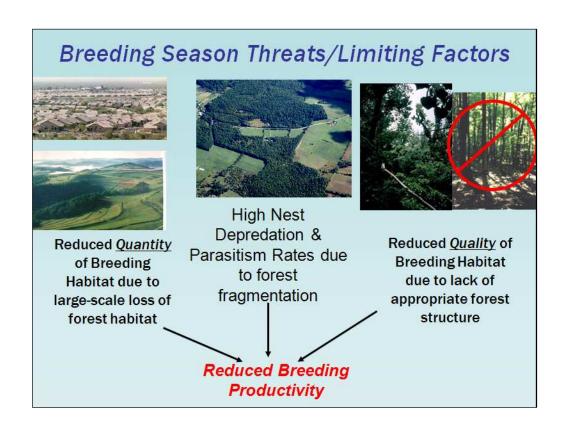


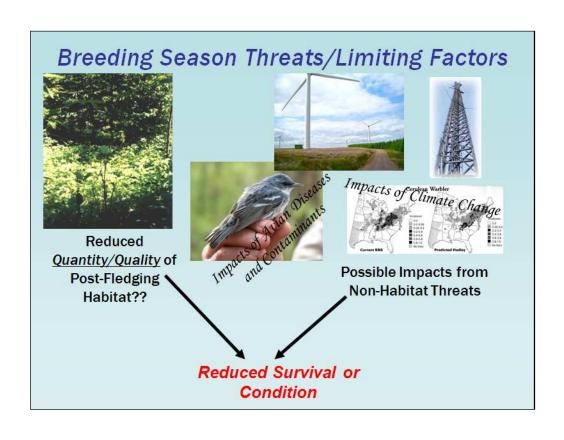
Developing Conservation Actions for Addressing Threats & Limiting Factors

Randy Dettmers
U.S. Fish and Wildlife Service

#### Cerulean Warbler Conservation Initiative Where are we now? Strategic Conservation began to recognize a problem. 1980s Approach 1990s starting gathering more data to understand basic biology status assessments, CWTG, 2000 gathering more data to define the 2005 problem Draft initial conservation plan 2006 Review & refine conservation plan 2007 Build partnerships to implement plan 2008







## Actions for Addressing Breeding Season Threats/Limiting Factors

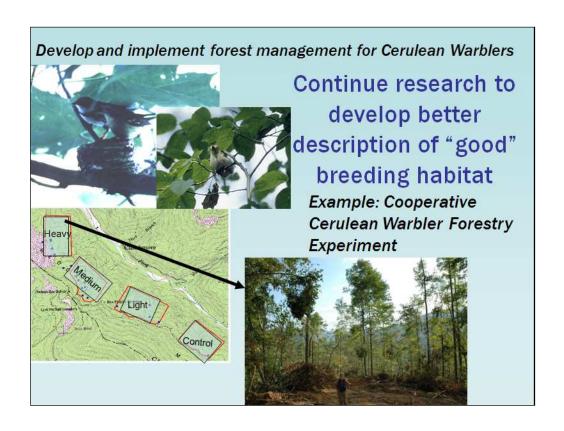
- Develop and Implement Forest Management Recommendations
- Reduce Forest Fragmentation and Prevent Major Forest Loss
  - Develop and Implement Coal Surface Mine Reclamation Guidelines
- Identify and Manage for High Quality Post-Fledging Habitat
- · Reduce Critical Information Gaps
- Education Programs to Raise Awareness
- · Assess Potential Impacts of Non-habitat Threats



Improve and protect breeding habitat

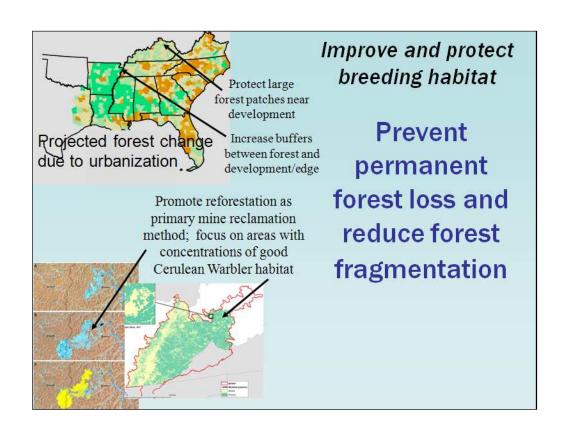
Develop and implement region-specific forest management guidelines

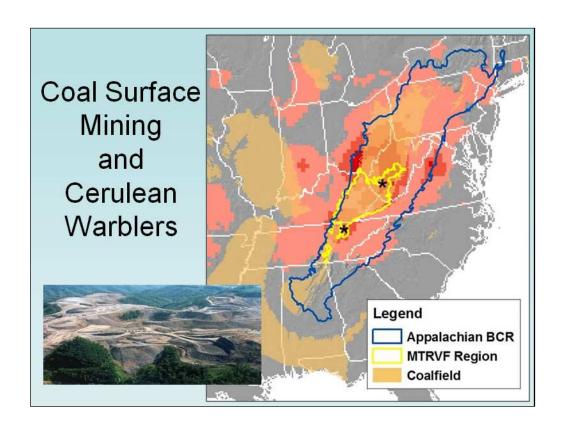
- Promote recommendations from meeting with Forest Industry
- Promote Sustainable Forest Management; inform certification programs
- Engage/educate forest managers and the public
- Build partnership to support action











... much of the core range of the CERW, in dark red, falls within the Appal coalfield. So surface mining in general, but mt-top removal mining in particular, has been identified as a limiting factor for cerw populations.



- •This is the primary reason there are very few trees on surface mines...
- •COMPACTION
- •These dozer tread marks indicate that this slope on this surface mine is seriously compacted
- •It will be very difficult for trees to grow here.



- •Thank you for inviting me to speak about the current reforestation renaissance that is taking place on surface mines across the Appalachian coal fields
- •Again, my name is Patrick Angel and I'm a forester with the Office of Surface Mining, in Interior
- •I'm going to talk to you about the Appalachian Regional Reforestation Initiative which is referred to as ARRI



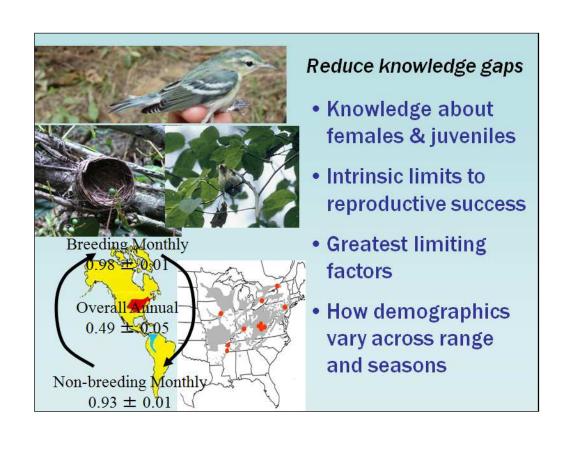
Build awareness of migratory bird issues through education programs

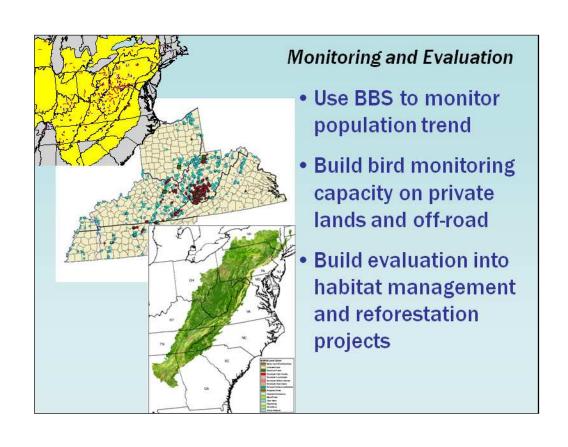






Could "Sister City"
or "Sister
Corporation"
programs help to
build awareness
and appreciation?





### Cerulean Warbler Conservation Initiative

### Where do we need to go?





1980s

1990s

2000s

2007

2008 & Future

began to recognize a problem starting gathering more data to understand basic biology Status assessment, CWTG

Initial conservation plan Implement plan – manage habitats/reduce threats - monitor response to actions

- · CWTG has shown the promise of multi-stakeholder initiative
- Needs partnership to continue and grow for further success